FORM PTO 1300			JC19 Rec'd PCT/PTQ 1 7 MAY 2001					
FORM PTO-1390 (REV. 11-2000)	•	PARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER					
IRA	NSMITTAL LETTER	TO THE UNITED STATES	0104-0340P					
DESTGNATED/ELECTED OFFICE (DO/EO/US) U.S. APPLICATION NO. (If known, see 37 CFR 1.5)								
	NCERNING A FILIN	G UNDER 35 U.S.C. 371	09/85@@¶					
INTERNATIO	ONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED					
	T/SE99/02119	November 18, 1999	November 18, 1998					
TITLE OF IN	VENTION		Hevenber 10, 1990					
APPLICANT	S) FOR DO/EO/US	REGISTRATION UNIT						
AII DICANI	S) FOR DO/EO/US	HAEGGSTROM, Jimmy						
Applicant here	with submits to the United State	s Designated/Elected Office (DO/EO/US) the follo	owing items and other information:					
		erning a filing under 35 U.S.C. 371.	_					
		bmission of items concerning a filing under 35 U.S.	C 271					
3. This ex	spress request to begin national	examination procedures (35 U.S.C. 371(f)) at	ony time rother than dalay					
exami	nation until the expiration of the	applicable time limit set in 35 U.S.C. 371(b) a	and PCT Articles 22 and 39 (1)					
4 The U	S has been elected by the expira	tion of 19 months from the priority date (Artic	le 31).					
5. A copy	of the International Application	n as filed (35 U.S.C. 371(c)(2))	,					
a. 🔝	is transmitted herewith (require	ed only if not transmitted by the International I	Bureau).					
ь. 🔀	has been transmitted by the Int	ernational Bureau. WO 00/29967						
c. [_	is not required, as the applicati	on was filed in the United States Receiving Of	fice (RO/US).					
6. An I	6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).							
a. 🔀	is transmitted herewith.							
b	b. has been previously submitted under 35 U.S.C. 154(d)(4)							
7. Amen	dments to the claims of the Inte	rnational Application under PCT Article 19 (3.	5 U.S.C. 371(c)(3)).					
a		red only if not transmitted by the International	Bureau).					
	have been transmitted by the Ir							
c	have not been made; however,	the time limit for making such amendments ha	s NOT expired.					
d. 🔀	have not been made and will no							
8. An E	ights anguage translation of the	e amendments to the claims under PCT Article	e 19 (35 U.S.C. 371(c)(3)).					
An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).								
An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).								
Items 11. to 2	0. below concern document(s)	or information included:						
11. X An In	formation Disclosure Statement	under 37 CFR 1.97 and 1.981449 and Intern	ational Search Deport w/ site d.d.					
12. An as	signment document for recording	g. A separate cover sheet in compliance with	37 CFR 3.28 and 3.21 is included					
13. 🕅 A FIR	ST preliminary amendment.	S and the second completion with	or CTR 3.26 and 3.31 is included.					
	COND or SUBSEQUENT preli	minary amendment.	,					
	stitute specification.	•						
16. A cha	nge of power of attorney and/or	address letter.						
17. A con	puter-readable form of the sequ	nence listing in accordance with PCT Rule 13to	er.2 and 35 U.S.C. 1.821-1.825.					
18 A sec	ond copy of the published interr	ational application under 35 U.S.C. 154(d)(4).						
19. A seco	ond copy of the English languag	e translation of the international application un	nder 35 U.S.C. 154(d)(4).					
20. 🔀 Other	items or information:							
	PEA/409 ded Figure Letter							
One (sheet of formal drawing							

U.S. APPLICATION NO (if known, see 37	CATION O (IL HOUND, see 37 CFR 1.5) NEWS 6 0 7 T INTERNATIONAL APPLICATION NO PCT/SE99/02119				ATTORNEY'S DOCKET NUMBER		
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21. The following fees					CAL	CULATIONS	PTO USE ONLY
BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5):							
Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO							
				£1 000 00			
and International Sear	en Report not preparet	i by tile i	EPO or JPO	\$1,000.00			
International prelimina	ry examination fee (3'	CFR 1	482) not paid to				
			the EPO or JPO	\$860.00			
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			482) not paid to USPTO				
but international search	n fee (37 CFR 1.445(a))(2)) paid	to USPTO	\$710.00			
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International prelimina			e 33(1)-(4)	\$690.00			
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months from the earlies					\$	0	
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Total Claims	16 - 20 =		0	X \$18.00	\$	0	
Independent Claims	2 - 3 =		0	X \$80.00	\$	0	
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overpayment to Deposit Account No. 02-2448.							
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR							
1.137(a) or (b)) must be filed and granted to restore the application to pending status.							
Send all correspondence to:							
Birch, Stewart, Kolasch & Birch, LLP or Customer No. 2292							
P.O. Box 747							
Falls Church, VA 22040-0747 (703)205-8000							
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PATENT 0104-0340P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:

HAEGGSTROM, Jimmy Conf.:

Int'l. Appl. No.:

PCT/SE99/02119

Appl. No.:

NEW

Group:

Filed:

May 17, 2001

Examiner:

For:

REGISTRATION UNIT

PRELIMINARY AMENDMENT

BOX PATENT APPLICATION

Assistant Commissioner for Patents Washington, DC 20231

May 17, 2001

Sir:

The following Preliminary Amendments and Remarks respectfully submitted in connection with the above-identified application.

AMENDMENTS

IN THE SPECIFICATION:

Please amend the specification as follows:

Before line 1, insert -- This application is the national phase under 35 U.S.C. § 371 of PCT International Application No. PCT/SE99/02119 which has an International filing date of November 1999, which designated the United States of America and was published in English.

IN THE CLAIMS:

Please amend the claims as follows:

- 4. (Amended) A registration unit as claimed in claim 1, characterized in that the registration module (12) comprises an aerial (13), a radio communication part (14) with a control part for the radio communication and a converting part (15) for conversion of a signal received from the information carrier into a signal usable by the processing unit.
- 6. (Amended) A registration unit as claimed in claim 1, characterized in that it further comprises means for reading bar codes.
- 7. (Amended) A registration unit as claimed in claim 1, characterized in that the registration module is adapted to be completely accommodated in the space for memory expansion in the mobile processing unit (11).
- 8. (Amended) A registration unit as claimed in claim 1, characterized in that the registration modules emulates a memory to the processing module, the processing unit communicating with the registration module in the same way as with a conventional memory.
- 14. (Amended) A registration module as claimed in claim 10, characterized in that it is adapted to emulate a memory to the processing module, the processing unit communicating with the registration module in the same way as with a conventional memory.

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0104-0340P

REMARKS

The specification has been amended to provide a cross-reference to the previously filed International Application. The claims have also been amended to delete improper multiple dependencies and to place the application into better form for examination. Entry of the present amendment and favorable action on the above-identified application are earnestly solicited.

Attached hereto is a copy Mark-up copy of the changes made to the application by this amendment.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

Joe McKinney Muncy, #32,334

P.O. Box 747
Falls Church, VA 22040-0747

(703) 205-8000

(Rev. 02/12/01)

VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Claims:

The claims have been amended as follows:

- 4. (Amended) A registration unit as claimed in [any one of claims 1-3] claim 1, characterized in that the registration module (12) comprises an aerial (13), a radio communication part (14) with a control part for the radio communication and a converting part (15) for conversion of a signal received from the information carrier into a signal usable by the processing unit.
- 6. (Amended) A registration unit as claimed in [any one of the preceding claims] claim 1, characterized in that it further comprises means for reading bar codes.
- 7. (Amended) A registration unit as claimed in [any one of the preceding claims] claim 1, characterized in that the registration module is adapted to be completely accommodated in the space for memory expansion in the mobile processing unit (11).
- 8. (Amended) A registration unit as claimed in [any one of the preceding claims] claim 1, characterized in that the registration modules emulates a memory to the processing module, the processing unit communicating with the registration module in the same way as with a conventional memory.

14. (Amended) A registration module as claimed in [any one of claims 10-13] claim 10, characterized in that it is adapted to emulate a memory to the processing module, the processing unit communicating with the registration module in the same way as with a conventional memory.

JC08 Rec'd PCT/PTO 1 7 MAY 2001

REGISTRATION UNIT

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Field of the Invention

The present invention relates to a registration unit intended for wireless communication with an information carrier, such as a transponder, and comprising a mobile unit. The invention further relates to a registration module for wireless communication with an information carrier, said module being connectible with another mobile unit.

10 Background Art

In mobile identification equipment, size is an essential factor, and it is desirable to reduce the size of the units included as much as possible. Identification equipment available today usually comprise a hand-held computer with an accessory module for wireless communication between the identification unit and an information carrier, such as a transponder. As a result, they will be large and unwieldy and not ergonomically designed. The accessory modules usually have a separate plastic casing which must be adapted to each hand-held computer and be attached to the same.

A further problem of today's identification equipment is that it is often necessary for the hand-held computer to participate in the identification process. For example, lists of approved transponders must be stored and searched in the hand-held computer. This results in the hand-held computer being prevented from performing other tasks during identification.

Moreover, separate output ports of the hand-held computer are normally required to allow the accessory module to be connected. As a rule, a serial interface and an RS232 plug are used.

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Object of the Invention

An object of the present invention therefore is to provide a registration unit which makes it possible to read and write information to/from data carriers with both simple and advanced mobile equipment, and which wholly, or at least partly, solves the above problems of prior-art technique.

This object is achieved by a registration unit and a registration module according to the appended claims.

By means of the registration unit and the registration module according to the invention, a combination of wireless identification with the aid of RFID (Radio Frequency IDentification) and a bar code will now be possible without necessitating reading of one at a time and changing of the accessory module between readings, which is necessary in currently used equipment. Thus, simultaneous reading of, for instance, transponders and bar codes can be effected by arranging a registration unit according to the invention in the space for memory expansion of a hand-held computer equipped for bar code reading. Besides, most hand-held computers have two internal spaces for an additional memory, one space being usable to receive a registration module while the other can be used to receive an additional memory unit.

By arranging the registration module in the space for memory expansion of the mobile processing unit, the size of the registration unit will be minimised. Moreover, the connection of the registration module can be made simple by the ports that are intended for the additional memory being used for communication between the registration module and the processing unit.

It is also an advantage of the invention that it enables integration of the hand-held computer and the registration module, which in turn renders it possible to avoid or minimise the need for cabling, which increases the reliability of the system. Safe identification by means of transponders will thus be possible

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with mobile equipment, which was previously difficult to perform owing to size, price, unwieldy shape and functionality.

5 Brief Description of the Drawings

The invention will be described below in more detail by way of an embodiment and with reference to the accompanying drawing, which in a block diagram schematically shows a system with a registration module designed according to the invention.

Description of Preferred Embodiments

The registration unit according to the invention suitably comprises a registration module 12 of RFID type, i.e. Radio Frequency IDentification. With the aid of this module, a reading/writing function is obtained for data carriers (e.g. transponders) with mobile units such as hand-held computers. The registration module, however, can also be adapted to other forms of wireless communication by means of radio waves. Preferably, however, it is adapted to communicate with an information carrier 10 which consists of a mobile unit which can store information and preferably which consists of a passive unit operated by energy which is transmitted in a wireless manner by the registration unit. It is also possible to employ information carriers using a battery or other internal energy sources within the scope of the invention.

The RFID module is adapted to be connected to a

30 hand-held mobile unit 11 (e.g. a computer, a telephone
or a combination thereof), which can accommodate at least
one additional memory module. The registration module
thus provides the mobile unit 11 with a reading/writing
function for exchange of information to/from data carriers (e.g. transponders) in a contactless manner by
means of radio waves (e.g. RFID technique).

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The RFID module is intended for use inside the mobile unit and is preferably formed as a small but thick credit card which is inserted into the mobile unit, such as a hand-held computer. Consequently, the RFID module will not be visible in normal use and thus does not affect the total size of the registration unit.

The RFID module is preferably connected to the connections that are intended for memory expansion to establish communication between the registration module and the mobile unit. Moreover, the power supply of the module is preferably obtained via the same connecting means which provides communication to the hand-held computer/mobile unit and which is, for example, a 6-pole connector. Preferably, the registration modules emulates a memory to the processing unit, which will see the registration module as an additional memory and also communicate with the same as if it were a conventional memory.

A casing for the registration module is suitably made of, for instance, plastic. The dimensions may vary but the casing can advantageously be designed as, for instance, SSD (Solid State Disk) memories, the size of which is 64*42*6mm, or as compact flash memories which are a standard for memory modules in hand-held units.

The RFID module 12 may comprise, for example, an aerial or antenna 13, a radio communication part 14 for receiving and transmitting radio signals and a converting unit 15 to enable communication between the radio communication part and the processing unit 11. The aerial 13 can be used to receive and transmit radio waves and thus serves as an interface against the information carriers 10. The radio communication part can be, for example, a passive part, such an RFID chip, which is used to control the aerial and/or to generate signals to the aerial. The converting unit 15 preferably comprises a one-chip computer or the like as well as a converting part. The one-chip computer is the active part which controls the radio communication part so that the correct

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function is achieved. The converting part can be a standalone part or be included as part of the one-chip computer and serves to adapt the output signal from the one-chip computer to the surroundings, for example to emulate a RAM memory (Random Access Memory). All the parts included in the RFID module can advantageously be arranged, and preferably soldered, on a common printed board. The RFID module further comprises preferably at least one connecting means to physically connect the module to the processing unit for transmitting signals therebetween. The parts included in the RFID module can also be combined to one or more chips having similar functions.

The module can also be supplemented with memory modules to obtain a combined smart unit, which, for instance, can store information about which transponders are approved in the specific application and only inform the hand-held computer when an approved (according to numbers stored) transponder is available in the reading area of the module, the transponder communicating with the hand-held computer via the module, for identification, logging of number, time and date, whereupon the hand-held computer can take a preprogrammed action if any. This can also be an electricity-saving function towards the battery supply of the hand-held computer since the RFID module takes care of the decoding even before the hand-held computer would otherwise have received the transponder number, which promotes a faster process and simpler and faster software in the hand-held computer/ mobile unit. Rapidity is an important aspect of hand-held computers, and if the check of the transponder number is handled in the RFID module, a larger processor capacity for the actual application in the hand-held computer is made available.

The registration module described above can be used in many fields: for instance, marking in service, industry; passage control of pallets, hoists, robots, machi-

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WO 00/29967 PCT/SE99/02119

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nery, animals, departing/arriving goods; stock-handling, charging; identification at predetermined locations for reading of metering points, e.g. water, electricity, gas, oil, pressure, flow rate and registration of measured values. Additional fields of application are messengers for delivering documents and parcels, identification and registration of mud collectors, lorry weighers, computers, tarpaulins, tents, canoes, pallets (wood and metal), paintings, trees, mobile phones etc. Furthermore the invention can be used by real-estate security officers for confirmation of attendance.

The invention is not limited to the above embodiments, and several variants are conceivable within the scope of the appended claims. For example, the module can be provided with a memory.

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CLAIMS

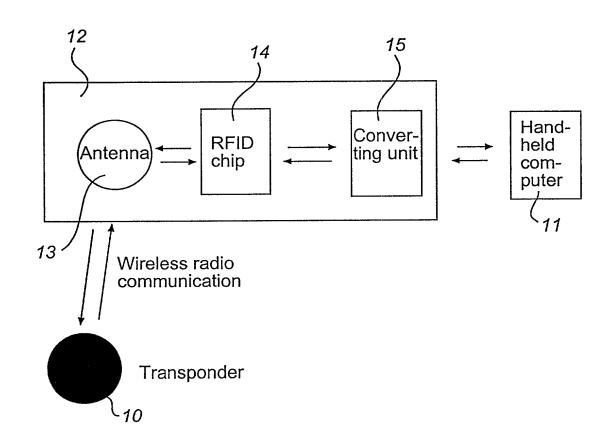
- A mobile registration unit intended for wireless.
 communication with an information carrier (10), and comprising a mobile processing unit (11), character terised in that it further comprises a registration module (12), which is adapted to be received in a space for memory expansion in the mobile processing unit (11), the communication between the information carrier (10) and the mobile processing unit (11) being effected by means of radio waves via the registration module (12).
 - 2. A registration unit as claimed in claim 1, c h a r a c t e r i s e d in that the mobile processing unit (11) consists of a hand-held computer, mobile telephone, pocket diary or a combination thereof, which is provided with a microprocessor.
 - 3. A registration unit as claimed in claim 1 or 2, c h a r a c t e r i s e d in that it is adapted to communicate with an information carrier (10) which consists of a mobile unit capable of storing information, and preferably which consists of a passive unit operated by energy which is transmitted in a wireless manner by the registration unit.
- 4. A registration unit as claimed in any one of claims 1-3, characterised in that the registration module (12) comprises an aerial (13), a radio communication part (14) with a control part for the radio communication and a converting part (15) for conversion of a signal received from the information carrier into a signal usable by the processing unit.
 - 5. A registration unit as claimed in claim 4, c h a r a c t e r i s e d in that the registration module further comprises memory means for storing of information, and comparing means for comparing a signal received from an information carrier with information stored in the memory means.

- 6. A registration unit as claimed in any one of the preceding claims, characterised in that it further comprises means for reading bar codes.
- 7. A registration unit as claimed in any one of the preceding claims, characterised in that the registration module is adapted to be completely accommodated in the space for memory expansion in the mobile processing unit (11).
- 8. A registration unit as claimed in any one of the preceding claims, characterised in that the registration modules emulates a memory to the processing module, the processing unit communicating with the registration module in the same way as with a conventional memory.
- 9. A registration unit as claimed in claim 8, characterised in that the registration module emulates a flash memory or an SSD (Solid State Disk) memory to the processing unit.
- 10. A registration module (12) for wireless commu20 nication with an information carrier (10), characterised in that it is adapted to communicate with
 the information carrier (10) by means of radio waves, and
 that it is designed to be accommodated in a space for
 memory expansion in a mobile processing unit (11).
- 25 11. A registration module as claimed in claim 10, character is ed in that it is adapted to communicate with an information carrier (10) which consists of a mobile unit capable of storing information, and preferably which consists of a passive unit operated by energy which is transmitted in a wireless manner by the registration unit.
 - 12. A registration module as claimed in claim 10 or 11, characterised in that the registration module (12) comprises an aerial (13), a radio communication part (14) with a control part for the radio communication and a converting part (15) for converting a sig-

nal received from an information carrier into a signal usable by the processing unit.

- 13. A registration module as claimed in claim 12, character is ed in that the registration module further comprises memory means for storing information, and comparing means for comparing a signal received from an information carrier with information stored in the memory means.
- 14. A registration module as claimed in any one of claims 10-13, characterised in that it is adapted to emulate a memory to the processing module, the processing unit communicating with the registration module in the same way as with a conventional memory.

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Attorney Docket No. 0104-0340P

BIRCH, STEWART, KOLASCH & BIRCH, LLP

LEASE NOTE: OU MUST OMPLETE THE OLLOWING P.O. Box 747 • Falls Church, Virginia 22040-0747 Telephone: (703) 205-8000 • Facsimile: (703) 205-8050

COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT AND DESIGN APPLICATIONS

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated next to my name; that I verily believe that I am the original, first and sole inventor (if only one inventor is named below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

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ttached:			Vovember 18, 1999		(if applicable	e) and/or		
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	Regulations, 91.56.	I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Regulations, §1.56.						
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	I hereby claim the benefit under Title 35, United States Code, \$120 of any United States and/or PCT application(s) listed below and, insofar as the subject without the states and or PCT application (s) listed below and							
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Attorney Docket No. 0104-0340P

I hereby appoint the following attorneys to prosecute this application and/or an international application based on this application and to transact all business in the Patent and Trademark Office connected therewith and in connection with the resulting patent based on instructions received from the entity who first sent the application papers to the attorneys identified below, unless the inventor(s) or assignee provides said attorneys with a written notice to the contrary:

Davis and C Charles	(Reg. No. 21,066)	Terrell C. Birch	(Reg. No. 19,382)
Raymond C. Stewart			
Joseph A. Kolasch	(Reg. No. 22,463)	James M. Slattery	(Reg. No. 28,380)
Bernard L. Sweeney	(Reg. No. 24,448)	Michael K. Mutter	(Reg. No. 29,680)
Charles Gorenstein	(Reg. No. 29,271)	Gerald M. Murphy, Jr.	(Reg. No. 28,977)
Leonard R. Svensson	(Reg. No. 30,330)	Terry L. Clark	(Reg. No. 32,644)
Andrew D. Meikle	(Reg. No. 32,868)	Marc S. Weiner	(Reg. No. 32,181)
Joe McKinney Muncy	(Reg. No. 32,334)	Donald J. Daley	(Reg. No. 34,313)
John W. Bailey	(Reg. No. 32,881)	John A. Castellano	(Reg. No. 35,094)
Gary D. Yacura	(Reg. No. 35,416)	Thomas S. Auchterlonie	(Reg. No. 37,275)
Mark J Nuell	(Reg. No. 36,623)		

Send Correspondence to:

BIRCH, STEWART, KOLASCH & BIRCH, LLP

or Customer No. 2292

P.O. Box 747 • Falls Church, Virginia 22040-0747
Telephone: (703) 205-8050 • Facsimile: (703) 205-8050

Telephone: (703) 205-8000 • Facsimile: (703) 205-8050

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE*			
····· ,	l	j	2001-05-03			
Jimmy HAEGGSTROM	Jinny Hæggshön	CITIZENSHII	· with			
Residence (City, State & Country)	, 30		;			
Goteborg SWEDEN SEX		Swedish				
MAILING ADDRESS (Complete Street Address i	ncluding City, State & Country)					
Tycho Brahes gata 5, SE-415 17 Goteborg SWEDEN						
GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE	,	DATE*			
Residence (City, State & Country)		CITIZENSHII	2			
MAILING ADDRESS (Complete Street Address	including City, State & Country)					
,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE*			
Residence (City, State & Country)		CITIZENSHI	P			
MAILING ADDRESS (Complete Street Address including City, State & Country)						
CIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE*			
Residence (City, State & Country)		CITIZENSHI	P			
Mesidence (City, State of Country)			•			
MAILING ADDRESS (Complete Street Address including City, State & Country)						

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aventor, if any:

i Name of Third

*DATE OF SIGNATURE